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All-flavour search for a diffuse cosmic neutrino flux with ANTARES

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The ANTARES neutrino telescope, located in the Mediterranean Sea, is the longest-operated under-sea neutrino detector, having collected data for more than 14 years and since 2008 in its full configuration. These data have been used to search for a diffuse flux of cosmic neutrinos, upgrading previously published results both in terms of livetime and in search method. In particular, a new event selection strategy, developed for the study of the atmospheric neutrino flux, allows a further rejection of atmospheric foregrounds, thus enabling a considerable reduction of previous systematic uncertainties connected with the background estimation . The results of this new analysis are reported in this contribution.

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